QC ABSTRACT

NAME OF WORK: Providing and Installation of RO Water Plant in Ward No.10 Doddabommasandra

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	RMC(M20)	Compressive Strength(7days and 28days)	2 set /6-15 cum	9.58	4	4
8	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
9	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

Suresh NL
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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 14-09-20

Lab ID	:	CP-2021-04-19-26
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Installation of RO Water Plant in Ward No.10 Doddabommasandra
Agency	:	Sri. Mahmmad Farooq, No.205, 9th Cross, Maruthi Nagara, Bhadrappa Layout, Bangalore-94
Customer's Reference	:	BBMP/EE/BTP/WO/108/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-09-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ; IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	12-09-20
Environmental Conditions during test	:	Temperature 26°C Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.83	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements

Note:

The results pertain to the samples received and tested

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 10-10-20

Lab ID	:	**CP-2021-04-19-26**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Installation of RO Water Plant in Ward No.10 Doddabommasandra
Agency	:	Sri. Mahmmad Farooq, No:205, 9th Cross, Maruthi Nagara, Bhadrappa Layout, Bangalore-94
Customer's Reference	:	BBMP/EE/BTP/WO/108/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-09-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	12-09-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements

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Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No : TC-5543

Date: 13-11-2020

To,

ASSISTANT EXECUTIVE ENGINEER

VIDYARANYAPURA SUB DIVISION

BBMP

BANGALORE

Dear Sir,

Sub: M/S. Civil Pro Services for the work of "PROVIDING AND INSTALLATION OF RO WATER PLANT IN WARD NO.10 DODDABOMMASANDRA."

Ref: 1. Work Order No: BBMP/EE/BTP/WO/108/2020-21

2. Job code: 010-20-000098

We are here with forwarding to Sri. Mahmmad Farooq, No:205, 9th Cross, Maruthi Nagara, Bhadrappa Layout, Bangalore-94. First and Final Bill duly verified and certified that the work is satisfactory and for a Gross Value of Rs.12,64,194.00 /- (Rs. Twelve Lakhs Sixty Four Thousand One Hundred and Ninety Four Only).

Thanking you,

Yours faithfully,

For Civil Pro

CIVIL Pro Sig..... Date..... BANGALORE

R. KARTHIK RECHAN
AUTHORIZED SIGNATORY
CIVIL PRO

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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4, 7TH MAIN MALLESWARAM, BANGALORE - 3

Certificate No: TC 0548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	CP/2021-04-19-24 Date: 19.04.21
Customer	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore
Address	Vidyaranyapura Sub Division, BBMP, Bangalore
Project Name	Providing and installation of RO Water Plant in Ward No.10 Doddabommasandra
Agency	Sri. Mahammad Farooq, No.205, 9th Cross, Maruthi Nagara, Bhadrappa Layout, Bangalore-84
Customer's Reference	BBMP/EE/B-V/P.W.-/08/2020-21
Source of Sample	Sample supplied by Agency
Sample condition	Satisfactory
Date of Receipt	19.04.21
Sample Type	40mm down size coarse aggregate
Reference to BIS codes	IS : 383-2016 Specification for Coarse and fine Aggregates from Natural Sources for Concrete (Third Revision)
	IS : 2386 Part I : Particle Size and Shape
	IS : 2386 Part III : Specific gravity, Density, Voids, Water Absorption
	IS : 2386 Part IV : Mechanical Properties
Date of test	19.04.21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
	80 mm				100	100
	40 mm				98.6	95-100
	20 mm	1422	1478	29.56	68.9	30-70
	4.75 mm	3298	4776	95.52	22.4	0-25
	2.36 mm	644	5420	108.4	-8.4	0-5
	Pan	120	5540	110.8		

Page

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-04-19-26

Date: 15-09-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	-
4	Bulk Density(Loose) (Kg/l)	1.41	-
5	Bulk Density(Compacted) (Kg/l)	1.47	-
6	Water Absorption(%)	0.23	-

* The results obtained are satisfactory as per standard requirements.

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Assistant Executive Engineer
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2021-04-19-26 **Date: 15-09-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Installation of RO Water Plant in Ward No.10 Doddabommasandra
Agency	:	Sri. Mahmmad Farooq, No:205, 9th Cross, Maruthi Nagara, Bhadrappa Layout, Bangalore-94
Customer Reference	:	BBMP/EE/BTP/WO/108/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-09-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-09-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	-

AE/JE

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-04-19-26** **Date: 15-09-20**

PHYSICAL PROPERTIES

Si.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.43	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-04-19-26** **Date: 15-09-20**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing and Installation of RO Water Plant in Ward No.10 Doddabommasandra

Agency : Sri. Mahmmad Farooq, No:205, 9th Cross, Maruthi Nagara, Bhadrappa Layout, Bangalore-94

Customer's Reference : BBMP/EE/BTP/WO/108/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-09-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 12-09-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

CIVIL Pro S.J. Date

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore - 97

AE W10

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-04-19-26** **Date: 15-09-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

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Quality Manager

****End of Report****

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2021-04-19-26
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Installation of RO Water Plant in Ward No.10 Doddabommasandra
Agency	:	Sri. Mahmmad Farooq, No:205, 9th Cross, Maruthi Nagara, Bhadrappa Layout, Bangalore-94
Customer's Reference	:	BBMP/EE/BTP/WO/108/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-09-20
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1 Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	25-09-20

Date: 28-09-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	399	202	199	16039	33.972	2118.1	2035.0	Not less than 1800Kg/m^3
2	401	201	202	16281	33.185	2038.2		
3	405	203	203	16690	32.521	1948.6		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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AE WO

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BBMP, Bangalore - 97

CIVIL PRO

Lab ID : CP-2021-04-19-26

Date: 28-09-20

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	202	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	202	203	
3	401	201	202	
4	404	201	200	
5	403	201	199	
6	402	199	201	
7	400	200	201	
8	401	199	203	
9	399	202	199	
10	401	200	201	
11	402	202	200	
12	400	202	202	
13	400	202	199	
14	401	201	200	
15	403	200	203	
16	404	203	200	
17	403	201	199	
18	400	200	203	
19	400	199	203	
20	402	200	200	
Average of 20	**401**	**201**	**201**	

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Lab ID : CP-2021-04-19-26

Date: 28-09-20

COMPRESSIVE STRENGTH:

SL No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	202	80774	349.2	4.3	4.3
2	402	202	81107	347.0	4.3	
3	401	201	80571	349.1	4.3	
4	404	201	81028	349.3	4.3	
5	403	201	80733	349.3	4.3	
6	402	199	80156	350.2	4.4	
7	400	200	80010	344.9	4.3	
8	401	199	79921	345.9	4.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	CP-2021-04-19-26 **Date: 14-09-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Installation of RO Water Plant in Ward No.19 Doddabommasandra
Agency	:	Sri. Mahammad Farooq, No.205, 9th Cross, Maruthi Nagara, Bhadrappa Layout, Bangalore-94
Customer's Reference	:	BBMP/EE/BTP/WO/108/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-09-20
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS 1608-2005(RA 2011), IS 1599-2012.
Date of test	:	12-09-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements

Note:

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All information furnished by Customer/Representative

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Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-04-19-26**

Date: 29/09/2020

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing and Installation of RO Water Plant in Ward No.10 Doddabommasandra

Agency : Sri. Mahmmad Farooq, No:205, 9th Cross, Maruthi Nagara, Bhadrappa Layout, Bangalore-94

Customer's Reference : BBMP/EE/BTP/WO/108/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-09-20

Customer ID : Column Foorting Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Foorting Concrete	M20	22/09/2020	29/09/2020	151.34 X 149.87 X 151.15	22683	**8.105**	416.6	18.4	18.7
2	Column Foorting Concrete	M20	22/09/2020	29/09/2020	151.30 X 151.84 X 150.63	22974	**8.362**	431.0	18.8	
3	Column Foorting Concrete	M20	22/09/2020	29/09/2020	151.22 X 150.45 X 151.94	22752	**8.605**	430.8	18.9	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-04-19-26** **Date: 20/10/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing and Installation of RO Water Plant in Ward No.10 Doddabommasandra

Agency : Sri. Mahmmad Farooq, No:205, 9th Cross, Maruthi Nagara, Bhadrappa Layout, Bangalore-94

Customer's Reference : BBMP/EE/BTP/WO/108/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-09-20

Customer ID : Column Foorting Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Foorting Concrete	M20	22/09/2020	20/10/2020	151.78 X 149.47 X 152.00	22686	**8.773**	541.1	23.8	23.4
2	Column Foorting Concrete	M20	22/09/2020	20/10/2020	151.09 X 150.58 X 149.57	22751	**8.878**	511.5	22.5	
3	Column Foorting Concrete	M20	22/09/2020	20/10/2020	151.05 X 149.73 X 150.77	22617	**8.583**	539.9	23.9	

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-04-19-26 **Date: 03/10/2020**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Installation of RO Water Plant in Ward No.10 Doddabommasandra
Agency	:	Sri. Mahmmad Farooq, No:205, 9th Cross, Maruthi Nagara, Bhadrappa Layout, Bangalore-94
Customer's Reference	:	BBMP/EE/BTP/WO/108/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-09-20
Customer ID	:	Plinth Beam Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M20	26/09/2020	03/10/2020	151.62 X 151.89 X 150.03	23029	**8.105**	422.6	18.3	18.5
2	Plinth Beam Concrete	M20	26/09/2020	03/10/2020	150.63 X 149.91 X 149.50	22580	**8.362**	425.6	18.8	
3	Plinth Beam Concrete	M20	26/09/2020	03/10/2020	149.09 X 149.57 X 151.55	22299	**8.605**	408.1	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-04-19-26

Date: 24/10/2020

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing and Installation of RO Water Plant in Ward No.10 Doddabommasandra

Agency : Sri. Mahmmad Farooq, No:205, 9th Cross, Maruthi Nagara, Bhadrappa Layout, Bangalore-94

Customer's Reference : BBMP/EE/BTP/WO/108/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 28-09-20

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M20	26/09/2020	24/10/2020	149.52 X 150.34 X 149.36	22479	8.773	528.0	23.5	23.2
2	Plinth Beam Concrete	M20	26/09/2020	24/10/2020	149.89 X 149.63 X 149.56	22427	8.878	505.2	22.5	
3	Plinth Beam Concrete	M20	26/09/2020	24/10/2020	151.18 X 150.84 X 150.47	22804	8.583	536.6	23.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/10/2020

Lab ID	:	**CP-2021-04-19-26**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Installation of RO Water Plant in Ward No.10 Doddabommasandra
Agency	:	Sri. Mahmmad Farooq, No:205, 9th Cross, Maruthi Nagara, Bhadrappa Layout, Bangalore-94
Customer's Reference	:	BBMP/EE/BTP/WO/108/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-10-20
Customer ID	:	Lintel Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	06/10/2020	13/10/2020	149.61 X 150.01 X 151.63	22442	8.105	422.8	18.8	18.7
2	Lintel Concrete	M20	06/10/2020	13/10/2020	149.50 X 150.73 X 149.20	22535	8.362	424.2	18.8	
3	Lintel Concrete	M20	06/10/2020	13/10/2020	149.19 X 149.41 X 149.41	22290	8.605	407.7	18.3	

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Certificate No: TC 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-04-19-26 Date: 03/11/2020

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore

Address : Vidyaranyapura Sub Division, BBMP, Bangalore

Project Name : Providing and Installation of RO Water Plant in Ward No 10 Doddabommasandra

Agency : Sri. Mahmmad Farooq, No.205, 9th Cross, Maruthi Nagara, Bhadrappa Layout, Bangalore-94

Customer's Reference : BBMP/EE/BTP/WO/108/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-10-20

Customer ID : Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 03/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	06/10/2020	03/11/2020	150.60 X 149.98 X 149.39	22587	8.773	538.8	23.9	23.3
2	Lintel Concrete	M20	06/10/2020	03/11/2020	151.15 X 150.21 X 151.83	22704	8.878	502.0	22.1	
3	Lintel Concrete	M20	06/10/2020	03/11/2020	150.45 X 150.39 X 149.47	22626	8.583	538.2	23.8	

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Note:

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Certificate No : TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-04-19-26**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Installation of RO Water Plant in Ward No.10 Doddabommasandra
Agency	:	Sri. Mahmmad Farooq, No:205, 9th Cross, Maruthi Nagara, Bhadrappa Layout, Bangalore-94
Customer's Reference	:	BBMP/EE/BTP/WO/108/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-10-20
Customer ID	:	Roof Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 19/10/2020

Date of test : 19/10/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	12/10/2020	19/10/2020	149.43 X 151.60 X 149.18	22654	8.105	425.3	18.8	18.5
2	Roof Concrete	M20	12/10/2020	19/10/2020	151.27 X 150.08 X 150.13	22703	8.362	417.9	18.4	
3	Roof Concrete	M20	12/10/2020	19/10/2020	150.83 X 149.98 X 150.22	22621	8.605	415.6	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-04-19-26** **Date: 09/11/2020**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing and Installation of RO Water Plant in Ward No.10 Doddabommasandra

Agency : Sri. Mahmmad Farooq, No:205, 9th Cross, Maruthi Nagara, Bhadrappa Layout, Bangalore-94

Customer's Reference : BBMP/EE/BTP/WO/108/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-10-20

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	12/10/2020	09/11/2020	150.42 X 150.66 X 150.55	22662	8.773	541.3	23.9	23.4
2	Roof Concrete	M20	12/10/2020	09/11/2020	150.86 X 151.36 X 151.07	22834	8.878	524.2	23.0	
3	Roof Concrete	M20	12/10/2020	09/11/2020	149.57 X 149.04 X 150.54	22292	8.583	519.3	23.3	

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Note:

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Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2021-04-19-26** **Date: 19-10-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Installation of RO Water Plant in Ward No.10 Doddabommasandra
Agency	:	Sri. Mahmmad Farooq, No:205, 9th Cross, Maruthi Nagara, Bhadrappa Layout, Bangalore-94
Customer's Reference	:	BBMP/EE/BTP/WO/108/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-10-20
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	14-10-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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Assistant Executive Engineer
Vidyaranyapura Sub Division
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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : CP-2021-04-19-26 Date: 19-10-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	–
5	Loose Bulk Density (Kg/litre)	1.73	–

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Format No: CP/TF/2017

TEST REPORT FOR PLASTER SAND

Lab ID	:	**CP-2021-04-19-26** **Date: 19-10-20**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Installation of RO Water Plant in Ward No.10 Doddabommasandra
Agency	:	Sri. Mahmmad Farooq, No:205, 9th Cross, Maruthi Nagara, Bhadrappa Layout, Bangalore-94
Customer's Reference	:	BBMP/EE/BTP/WO/108/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-10-20
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	14-10-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

Sumitha. N L
AE W10

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL Pro Sig..... Date..... BANGALORE

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-04-19-26** **Date: 19-10-20**

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Sunitha.NL
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